

Title (en)
INJECTION DEVICE FOR MINIMALLY INVASIVE PROCEDURES

Title (de)
INJEKTIONSVORRICHTUNG FÜR MINIMAL INVASIVE EINGRIFFE

Title (fr)
DISPOSITIF D'INJECTION POUR INTERVENTIONS PEU INVASIVES

Publication
EP 3030171 A2 20160615 (EN)

Application
EP 14756174 A 20140808

Priority
• US 201361863888 P 20130808
• US 2014050446 W 20140808

Abstract (en)
[origin: US2015045769A1] Provided herein is an injection device that can be used in minimally invasive procedures, such as laparoscopic surgeries, for direct administration of a fluid, such as a therapeutic, to a target tissue or organ.

IPC 8 full level
A61B 17/34 (2006.01); **A61M 5/178** (2006.01)

CPC (source: EA EP US)
A61B 17/3478 (2013.01 - EA EP US); **A61D 7/00** (2013.01 - EA EP US); **A61M 5/31511** (2013.01 - EA EP US); **A61M 5/3202** (2013.01 - EA US); **A61M 5/46** (2013.01 - EA US); **A61P 3/10** (2017.12 - EP); **A61P 7/04** (2017.12 - EP); **A61P 7/06** (2017.12 - EP); **A61P 9/00** (2017.12 - EP); **A61P 9/10** (2017.12 - EP); **A61P 9/12** (2017.12 - EP); **A61P 11/00** (2017.12 - EP); **A61P 17/14** (2017.12 - EP); **A61P 19/02** (2017.12 - EP); **A61P 21/00** (2017.12 - EP); **A61P 21/02** (2017.12 - EP); **A61P 25/00** (2017.12 - EP); **A61P 25/04** (2017.12 - EP); **A61P 29/00** (2017.12 - EP); **A61P 31/12** (2017.12 - EP); **A61P 31/18** (2017.12 - EP); **A61P 37/04** (2017.12 - EP); **A61P 43/00** (2017.12 - EP); **A61B 2017/00247** (2013.01 - EA EP US); **A61B 2090/034** (2016.02 - EA EP US); **A61B 2090/08021** (2016.02 - EA EP US); **A61M 2005/31598** (2013.01 - EA US); **A61M 2202/206** (2013.01 - EA EP US); **A61M 2210/02** (2013.01 - EA EP US); **A61M 2210/04** (2013.01 - EA EP US); **A61M 2210/0693** (2013.01 - EA EP US); **A61M 2210/1003** (2013.01 - EA EP US); **A61M 2210/1039** (2013.01 - EA EP US); **A61M 2210/1071** (2013.01 - EA EP US); **A61M 2210/1089** (2013.01 - EA EP US); **A61M 2210/125** (2013.01 - EA EP US); **A61M 2210/1433** (2013.01 - EA EP US); **A61M 2210/166** (2013.01 - EA EP US)

Citation (search report)
See references of WO 2015021448A2

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
US 10245388 B2 20190402; **US 2015045769 A1 20150212**; **US 2015352293 A9 20151210**; CA 2920303 A1 20150212; CA 2920303 C 20170829; CN 105899154 A 20160824; CN 105899154 B 20180921; EA 032285 B1 20190531; EA 201600139 A1 20161031; EP 3030171 A2 20160615; EP 3030171 B1 20171101; ES 2647789 T3 20171226; HK 1225257 B 20170908; JP 2016532496 A 20161020; JP 6293892 B2 20180314; MX 2016001666 A 20161214; MX 366880 B 20190729; WO 2015021448 A2 20150212; WO 2015021448 A3 20150521

DOCDB simple family (application)
US 201414455865 A 20140808; CA 2920303 A 20140808; CN 201480055640 A 20140808; EA 201600139 A 20140808; EP 14756174 A 20140808; ES 14756174 T 20140808; HK 16113717 A 20161201; JP 2016533484 A 20140808; MX 2016001666 A 20140808; US 2014050446 W 20140808